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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,749	06/19/2003	Shigeru Sugaya	SONYJP 3.0-1008	6001
530 7590 10/29/2008 LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			EXAMINER WONG, BLANCHE	
			ART UNIT 2419	PAPER NUMBER
			MAIL DATE 10/29/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/600,749	Applicant(s) SUGAYA, SHIGERU	
	Examiner Blanche Wong	Art Unit 2419	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 July 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-23 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

With regard to claim 2, "the interference detecting means detecting interference of the beacon information based on parameters obtained by receiving further beacon information from the another wireless network" in lines 20-23 is replaced with "*wherein the interference detecting means detecting interference of the beacon information of the given wireless network based on parameters obtained by receiving further beacon information from the another wireless network*".

With regard to claim 4, "reservation and/or allocation" in line 4 is replaced with "at least one of reservation, allocation, and reservation and allocation".

With regard to claim 4, "detects whether contention free periods" in lines 5-6 is replaced with "detecting whether the one or more contention free periods".

With regard to claim 4, "based on parameters obtained by the receiving of the further beacon information" in lines 7-9 is replaced with "based on the parameters obtained by receiving further beacon information".

With regard to claim 5, "the contention free periods" in line 5 is replaced with "the one or more contention periods".

With regard to claim 8, "the interference detecting step detecting interference of the beacon information based on parameters obtained by receiving further beacon information from the another wireless network" in lines 19-22 is replaced with "*wherein the interference detecting step detects interference of the beacon information of the*

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given wireless network based on parameters obtained by receiving further beacon information from the another wireless network".

With regard to claim 10, "reservation and/or allocation" in line 4 is replaced with "at least one of reservation, allocation, and reservation and allocation".

With regard to claim 10, "detects whether contention free periods" in lines 5-6 is replaced with "detects whether the one or more contention free periods".

With regard to claim 11, "the contention free periods" in line 5 is replaced with "the one or more contention periods".

With regard to claim 20, "the interference detecting step detecting interference of the beacon information based on parameters obtained by receiving further beacon information from the another wireless network" in lines 19-22 is replaced with "*wherein* the interference detecting step detects interference of the beacon information *of the given wireless network* based on parameters obtained by receiving further beacon information from the another *wireless* network".

With regard to claims 21 and 22, "each one the plurality of wireless networks" in lines 3-4 is replaced with "each one of the plurality of wireless networks".

With regard to claim 22, "that wireless network in a transmission frame period, the transmission frame period ..." in lines 8-9 is replaced with "that wireless network in an associated transmission frame period, the associated transmission frame period ...".

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Allowable Subject Matter

2. **Claims 1-23** are allowed.
3. The following is an examiner's statement of reasons for allowance:

With regard to claims 2,8,20, the prior art of record fails to anticipate or make obvious a radio communication apparatus, method and computer readable medium storing a computer program "setting a transmission frame period of the given wireless network and transmitting at a predetermined time within the transmission frame period, beacon information regarding resource allocation; detecting whether the given wireless network interferes with another one of the plurality of wireless networks; and setting, upon detection of interference between the given wireless network and the another wireless network, a buffer frame period that is of different length than the transmission frame period to change a timing of the transmission frame period, wherein the detecting step detects interference of the beacon information of the given wireless network based on parameters obtained by receiving further beacon information received from the another wireless network.

With regard to claims 14,17,21, the prior art of record fails to anticipate or make obvious a radio communication apparatus, method and computer readable medium

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storing a computer program “receiving first beacon information from a first control station of a first one of the plurality of wireless networks located in a predetermined beacon information receiving range; detecting second beacon information from a second control station of a second one of the plurality of wireless network; detecting whether the first beacon information collides with the second beacon information; and notifying the first control station of the first network of a beacon information collision detection result.”

With regard to claim 22, the prior art of record fails to anticipate or make obvious a radio communication system comprising: “a plurality of wireless networks, each one of the plurality of wireless networks including an associated plurality of radio communication apparatuses and an associated control station, the associated control station being operable to allocate a resource to each associated radio communication apparatus of that wireless network in an associated transmission frame period and to transmit a beacon signal at a predetermined timing within the associated transmission frame period, wherein upon detection of interference between at least two of the plurality of wireless networks, a buffer frame period having a different length than the associated transmission frame period is set temporarily in one of the at least two wireless networks to prevent a collision between a first beacon signal transmitted by a first control station associated with the one of the at least two wireless networks and a second beacon signal transmitted by a second control station associated with another of

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the at least two wireless networks, the buffer frame period adjusting a length of an interval between the first beacon signal and the second beacon signal.”

With regard to claim 23, the prior art of record fails to anticipate or make obvious a radio communication system comprising: “a plurality of wireless networks, each one of the plurality of wireless networks including an associated plurality of radio communication apparatuses and an associated control station, the associated control station being operable to allocate a resource to each associated radio communication apparatus of that wireless network in an associated transmission frame period, the associated frame period including a non-competitive transmission field; wherein upon detection of interference between at least two of the plurality of wireless networks, a buffer frame period having a different length than the associated transmission frame period is set temporarily in one of the at least two wireless networks to prevent competition between a first non-competitive transmission field of a first transmission frame period associated with the one of the at least two wireless networks and a second non-competitive transmission field of a second transmission frame period associated with another of the at least two wireless networks, the buffer frame period adjusting a positional relationship between a timing of the first transmission frame period and a timing of the second transmission frame period.”

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Blanche Wong/
Examiner, Art Unit 2419
October 24, 2008

/Edan Orgad/
Supervisory Patent Examiner, Art Unit 2419